

#2

OIKE

## RAW SEQUENCE LISTING

DATE: 08/02/2001

PATENT APPLICATION: US/09/912,697

TIME: 14:29:45

Input Set : A:\MOR-0040.ST25.txt

Output Set: N:\CRF3\08022001\I912697.raw

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3 <110> APPLICANT: Nicolaides, Nicholas C  
4 Sass, Philip M  
5 Grasso, Luigi M  
6 Kline, J Bradford  
8 <120> TITLE OF INVENTION: METHODS FOR GENERATING ANTIBIOTIC RESISTANT MICROBES AND  
NOVEL  
9 ANTIBIOTICS  
11 <130> FILE REFERENCE: MOR-0040  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/912,697  
14 <141> CURRENT FILING DATE: 2001-07-25  
16 <160> NUMBER OF SEQ ID NOS: 39  
18 <170> SOFTWARE: PatentIn version 3.1  
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96 tgggacatga gcagtatgct aaatgagtac tattccatag aattggtgaa tgatggtcta 2160
98 gataatgact taaagtctgt gaagctaaaa tctctaccac tacttttaaa aggctacatt 2220
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102 gatgaacaag agtgtctaga tggattttta agagagattg cattactcta tatacctgat 2340
104 atggttccga aagtcgatac actcagatga tcgttgtcag aagacgaaaa agcccagttt 2400
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124 cttgtcccat aaaagtttta atttactgag cctttcggtc aagtaaacta gtttatctag 3000
126 ttttgaaccg aatattgtgg gcagatttgc agtaagttca gttagatcta ctaaaagttg 3060
128 tttgacagca gccgattcca caaaaatttg gtaaaaggag atgaaagaga cctcgcgcgt 3120
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136 <211> LENGTH: 769
137 <212> TYPE: PRT
138 <213> ORGANISM: Saccharomyces cerevisiae
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147 20 25 30
150 Met Glu Asn Ser Ile Asp Ala Asn Ala Thr Met Ile Asp Ile Leu Val
151 35 40 45
154 Lys Glu Gly Gly Ile Lys Val Leu Gln Ile Thr Asp Asn Gly Ser Gly
155 50 55 60
158 Ile Asn Lys Ala Asp Leu Pro Ile Leu Cys Glu Arg Phe Thr Thr Ser
159 65 70 75 80
162 Lys Leu Gln Lys Phe Glu Asp Leu Ser Gln Ile Gln Thr Tyr Gly Phe
163 85 90 95
166 Arg Gly Glu Ala Leu Ala Ser Ile Ser His Val Ala Arg Val Thr Val
167 100 105 110
170 Thr Thr Lys Val Lys Glu Asp Arg Cys Ala Trp Arg Val Ser Tyr Ala
171 115 120 125
174 Glu Gly Lys Met Leu Glu Ser Pro Lys Pro Val Ala Gly Lys Asp Gly
175 130 135 140
178 Thr Thr Ile Leu Val Glu Asp Leu Phe Phe Asn Ile Pro Ser Arg Leu
179 145 150 155 160
182 Arg Ala Leu Arg Ser His Asn Asp Glu Tyr Ser Lys Ile Leu Asp Val

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186 Val Gly Arg Tyr Ala Ile His Ser Lys Asp Ile Gly Phe Ser Cys Lys
187                               180                               185                               190
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191                               195                               200                               205
194 Val Gln Asp Arg Ile Arg Thr Val Phe Asn Lys Ser Val Ala Ser Asn
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198 Leu Ile Thr Phe His Ile Ser Lys Val Glu Asp Leu Asn Leu Glu Ser
199 225                               230                               235                               240
202 Val Asp Gly Lys Val Cys Asn Leu Asn Phe Ile Ser Lys Lys Ser Ile
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206 Ser Leu Ile Phe Phe Ile Asn Asn Arg Leu Val Thr Cys Asp Leu Leu
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210 Arg Arg Ala Leu Asn Ser Val Tyr Ser Asn Tyr Leu Pro Lys Gly Phe
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214 Arg Pro Phe Ile Tyr Leu Gly Ile Val Ile Asp Pro Ala Ala Val Asp
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218 Val Asn Val His Pro Thr Lys Arg Glu Val Arg Phe Leu Ser Gln Asp
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222 Glu Ile Ile Glu Lys Ile Ala Asn Gln Leu His Ala Glu Leu Ser Ala
223                               325                               330                               335
226 Ile Asp Thr Ser Arg Thr Phe Lys Ala Ser Ser Ile Ser Thr Asn Lys
227                               340                               345                               350
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231                               355                               360                               365
234 Arg Lys Ser Leu Arg Gln Ala Gln Val Val Glu Asn Ser Tyr Thr Thr
235                               370                               375                               380
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262 Val Pro Ser Ile Ala Asp Asp Glu Lys Asn Ala Leu Pro Ile Ser Lys
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266 Asp Gly Tyr Ile Arg Val Pro Lys Glu Arg Val Asn Val Asn Leu Thr
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270 Ser Ile Lys Lys Leu Arg Glu Lys Val Asp Asp Ser Ile His Arg Glu
271                               515                               520                               525
274 Leu Thr Asp Ile Phe Ala Asn Leu Asn Tyr Val Gly Val Val Asp Glu
275                               530                               535                               540
278 Glu Arg Arg Leu Ala Ala Ile Gln His Asp Leu Lys Leu Phe Leu Ile
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282 Asp Tyr Gly Ser Val Cys Tyr Glu Leu Phe Tyr Gln Ile Gly Leu Thr
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287                               580                               585                               590
290 Asp Asp Ile Val Leu Tyr Asn Leu Leu Ser Glu Phe Asp Glu Leu Asn
291                               595                               600                               605
294 Asp Asp Ala Ser Lys Glu Lys Ile Ile Ser Lys Ile Trp Asp Met Ser
295                               610                               615                               620
298 Ser Met Leu Asn Glu Tyr Tyr Ser Ile Glu Leu Val Asn Asp Gly Leu
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307                               660                               665                               670
310 Leu Gly Lys Glu Val Asp Trp Glu Asp Glu Gln Glu Cys Leu Asp Gly
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318 Val Asp Thr Leu Asp Ala Ser Leu Ser Glu Asp Glu Lys Ala Gln Phe
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322 Ile Asn Arg Lys Glu His Ile Ser Ser Leu Leu Glu His Val Leu Phe
323                               725                               730                               735
326 Pro Cys Ile Lys Arg Arg Phe Leu Ala Pro Arg His Ile Leu Lys Asp
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338 &lt;210&gt; SEQ ID NO: 3

339 &lt;211&gt; LENGTH: 3056

340 &lt;212&gt; TYPE: DNA

341 &lt;213&gt; ORGANISM: Mus musculus

343 &lt;400&gt; SEQUENCE: 3

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348 gtcttttccc gagagcggca ccgcaactct cccgcggtga ctgtgactgg aggagtcctg      180
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384 ataaaaggca aattctacta caagaagaga agctattgct ggccgtttta aagacctcct 1260
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449 &lt;212&gt; TYPE: PRT

450 &lt;213&gt; ORGANISM: Mus musculus

452 &lt;400&gt; SEQUENCE: 4

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462 Leu Ser Leu Ser Thr Ala Val Lys Glu Leu Ile Glu Asn Ser Val Asp
463 35 40 45
466 Ala Gly Ala Thr Thr Ile Asp Leu Arg Leu Lys Asp Tyr Gly Val Asp
467 50 55 60
470 Leu Ile Glu Val Ser Asp Asn Gly Cys Gly Val Glu Glu Glu Asn Phe
471 65 70 75 80

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/912,697

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Input Set : A:\MOR-0040.ST25.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:3166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27